

Instruction Cum User Manual For **EUROVAC B**



Back Side

Dear Customer,

Congratulations on your purchase of this versatile and need oriented suction unit. It will serve you well for years, if properly looked after. It is designed for use in ambulances, hospitals, nursing homes, ICU and for home care. Non corrosive and shockproof enclosure is pressure moulded in engineering plastic ABS giving smooth and easy-to-clean surface.

ASSEMBLY

The pump (based on piston system), batteries and PC card are housed in enclosure. The panel has a vacuum gauge, release valve (for vacuum adjustment), 'push to on' 'push to off' switch and four neon lights indicating;

- 1) external power (mains AC on)
- 2) internal battery
- 3) vehicle battery
- 4) internal battery charging level

The first is for AC mains, second for internal battery pack, third for vehicle battery and the last shows battery charging level. An ON/OFF switch on the panel is for switching the unit 'push to on' 'push to off'. Vehicle charging cord (when required) is to be connected on socket (with threading) provided on side.

TECHNICAL

Housing: Robust engineering moulded shock resistant ABS plastic

Capacity: -575mm Hg ± 10 ; Vacuum, 14 ltrs/ min.

Pump Type: Oil free piston pump.

Jars: Wide mouthed autoclavable 2ltr. Collection jar (Polycarbonate), safety jar with mechanical/electronic overflow motor shut-off system and overflow bacterial filter.

Tubing: 8 mm ID x 2 mtr (Silicon)

Vacuum Gauge: 6.25 cms. 0-760mm Hg calibration.

Power: Operates on 220 V AC and 12 VDC internal battery, 7.2 Ah. (110V on request)

Dimension & Weight: 20 x 42 x 36cms. 9 kg.

Battery Backup: 120 minutes on full charge: In built maintenance-free battery.

Provided with cable for AC mains and ambulance/car use.

VACUUM AT ALTITUDES

The specified maximum vacuum refers to sea level. According to local conditions, and barometric pressure, slight deviations in vacuum reading may be noted. As a reference, the table below shows several factors, by which the indicated maximum vacuum value must be multiplied, according to the altitude of location where the measurement is carried out.

Location/Maximum Vacuum

Location	Sea level	100m	2000m	4000m
Factor	1.00	0.88	0.78	0.60

The pump is housed in the enclosure. To fasten it well with the base two hexa head bolts (used as holdfast for transportation at the bottom of the unit) MUST be removed by rotating anticlockwise with the aid of a simple hand tool. Antibacterial filter (element replaceable) is slipped into the safety jar (at the back) and the other end is connected to the slot marked 'Vacuum' on the jar lid. The second nozzle is marked "patient" and the tubing from this goes to the patient. The release valve for adjusting the negative pressure and the vacuum gauge are on the panel. Main on/off switch cum pilot lamp, fuse and the removable main lead connector are on the side.

Before the unit is put on please see that:

1. 'O'rings on the push-in connector are not worn out. Check that safety jar with 2 'O' rings is well inserted.
2. Jar be checked for any crack, tubing and lid be tightly placed on the jar. The angular connector must be inserted as far as the stop. While unplugging, twist and pull.
3. Adjust vacuum before use. Fully tightened clockwise knob means full vacuum.

JAR/CLEANING AND DISINFECTING: Polycarbonate jar (PC) is superior to glass. 3/4th filling is recommended.

After each use, jar, lid, over flow cut off valve, catheters, etc. should be cleaned thoroughly. When cleaning is necessary after infective fluid has been evacuated, the jar, lid, filter housing, tube, cut off valve can be sterilized by autoclaving up to 120° C for 20 minutes.

Alkaline cleaning agents and disinfectants based on phenyl may not be used. Adherence to hospital directives on hygiene is of prime importance. The instructions provided by the suppliers of cleaning agents as well as by the manufacturers of sterilization/or disinfection units must also be followed, where application, temperature, process duration and airing, etc. are concerned.



2 Ltr PC Jar

BACTERIAL FILTER: The replaceable filter element, filters evacuated air before it enters the pump, thereby infecting the environment. It must be changed on normal days but immediately after vapours have entered or after infective suction has been done



Bacterial Filter

PUMP

The unit is fitted with Piston type oil-free pump, provides reduced maintenance cost.

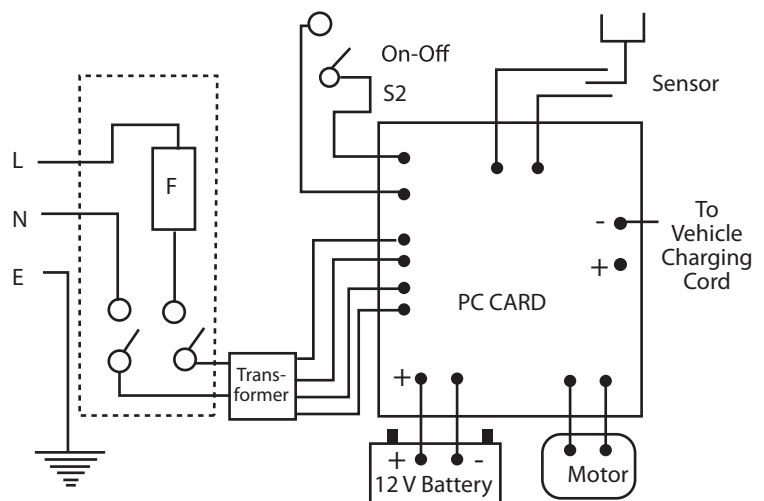
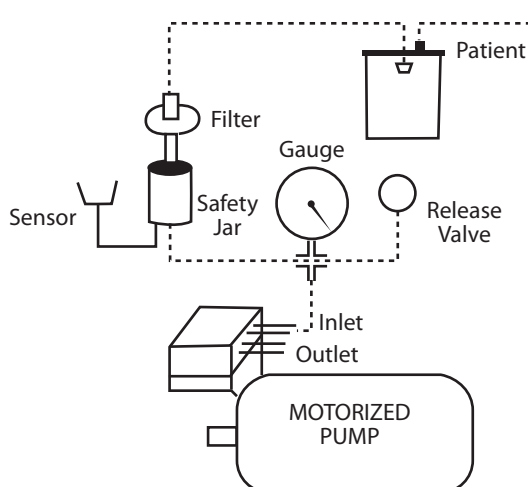
- Open the unit with the aid of an allen key provided and disconnect the tube from the inlet point on the pump housing.
- Take out the motorized pump fitted on (and together with) the platform.
- The fly valves sheet is placed in the top the four screws of which can be opened-one for vacuum and the other for outlet. The piston is fitted below the top and over the eccentrically rotated came. Just wipe clean these parts and set the unit again.
- There are two openings (small and U type large) in both the top portions. While fitting see that large U of the one face towards the small round of the other and small of the first face the large of the screws can be put back and tightened in their positions.
- Please run the unit and see its satisfactory functioning before housing is screwed up.



Unlike the rotary design, NO LUBRICATION IS REQUIRED IN THIS PUMP. The unit has not to be tampered with by any mechanic other than our factory engineer, or the person authorized.

BATTERY CHARGING/REPLACEMENT

If the unit remains unused for say ten days, it should be connected to the AC supply and switched on for over two hours. For battery replacement, Open the back of the unit, remove negative and positive connectors on the battery. Remove the battery from the hook and install new battery. Remember to charge the new battery for 8-10 hours for optimum performance.



TROUBLE SHOOTING:

Problem	Possible source of trouble	Check/Action to be taken
Motor does Not Run	Power Supply	Voltage, power socket
	Main switch	Set at "ON"
	Electrical cord	Plug type, plug connections, damaged cord
	Leak within the pump or in the external suction circuit	Isolate the source of trouble by carrying out the checks outlined.
Inadequate Suction Performance	External cause: Push-in connector O-rings/Lid gasket	Condition
	Safety jar O-rings	Condition
	Push-in angular connectors	No Leaks at tube ends. Push in as far as stop.
	Release Valve	The Knob should be tightly placed
	Tubing	Cracks, brittle areas
	Lids	Airtight fit jars and Safety jar
	Jars	Condition, Possible cracked edges, hairline cracks
	Bacteria filter housing (on Safety jar top)	Condition and absence of leaks
	Filter paper	Condition, position of housing
	BATTERY Inadequate battery back-up	Charge the unit for 4-6 hours or replace battery
Vacuum gauge indicates a vacuum Pump does not suck, however	Blockage or kink in tubing within the pump or in the external suction circuit	Isolate source of trouble as follows: Remove the safety jar, leave the suction connection open. If the vacuum gauge now indicates zero vacuum, the cause is external
	External cause: Bacteria filter, safety jar, overflow valve in the lid, (float valve) push-in connectors, tubing etc.	Investigate the whole external suction circuit for blockage (s), float valve sticking, kinked tubing and rectify. If the vacuum gauge still indicates a vacuum, the cause is internal

TERMS OF WARRANTY

Anand Medicaids Private Limited warranty the high quality and workmanship of each Anand's HI-VAC for a period of one year subsequent to the date of delivery by the company. During this period, faulty material will be replaced free of charge. This warranty does not extend to components that are subject to wear and tear in the course of normal operation or due to improper treatment/maintenance as per instructions.

Further conditions in accordance with international standard IEC 601.1 item 6.8.2b.

The manufacturer is only responsible for effects on the safety, the reliability and the performance of the appliance if

- Installation, additions, adjustments, modifications or repairs are carried out by personnel authorized by the manufacturer
- The electrical installations within the room concerned satisfy the requirements laid down by IEC.
- The appliance is used in full accordance with the instruction manual which is solely a guide and no substitute for professional training. The safe and effective use of this product largely depends on the skill of the operator. We are not liable for any damages due to mishandling or improper and unauthorised use.
- The company reserve the right to change technical specifications, designations and catalogue numbers without prior notice.

Note

Ensure that your electrical wirings are well earthed with 1 line and 1 neutral phase and your voltage is between 220V 240V. 50 Hz.

Ensure that the suction unit should not be lifted above human body level.

Dispose of used product/packaging in safe manner so as not to harm stray cattle, children and environment.

WARRANTY CARD

Model No. _____

SN _____

Date of Purchase: _____

Dealer Name: _____

Stamp :



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EC REP

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